

Title (en)

Internal display-mounted antenna for mobile electronic equipment and mobile electronic equipment incorporating same

Title (de)

Intern am Display angeordnete Antenne für mobile elektronische Geräte und zugehöriges mobiles elektronisches Gerät

Title (fr)

Antenne intégrée montée au niveau de l'écran dans un système électronique mobile et système électronique mobile comprenant celle-ci

Publication

EP 1764860 A1 20070321 (EN)

Application

EP 06023967 A 20020103

Priority

- EP 02290008 A 20020103
- KR 20010019281 A 20010411
- KR 20010033952 A 20010615

Abstract (en)

A mobile electronic equipment with an internal antenna includes a case with a opened portion, a display panel exposed through the opened portion of the case for displaying a character or image information, a panel frame made of metal to support the edges of the display panel and being positioned within the case, and an antenna for enabling a data transmission and reception for a radio communication. The antenna is grounded to the panel frame in a state of being positioned within the case. The antenna is fixed to the panel frame with a bracket for fixing the display panel to the case. The antenna of the mobile electronic equipment is positioned in the portable electronic equipment such as the PDA or the portable computer and data transmission and reception is possibly performed for a radio communication without being exposed outwardly. Thus, the problem that a user should handle the antenna directly can be solved, and the antenna can be prevented from damage possibly caused due to a wrong use.

IPC 8 full level

H01Q 1/22 (2006.01); **G06F 1/16** (2006.01); **G06F 1/18** (2006.01)

CPC (source: EP US)

G06F 1/1616 (2013.01 - EP US); **G06F 1/1626** (2013.01 - EP US); **G06F 1/1637** (2013.01 - EP US); **G06F 1/1698** (2013.01 - EP US); **H01Q 1/2266** (2013.01 - EP US)

Citation (search report)

- [Y] EP 0543645 A1 19930526 - MOTOROLA INC [US]
- [Y] EP 0484454 B1 19940928 - SIEMENS AG OESTERREICH [AT], et al
- [A] WO 0046875 A1 20000810 - XERTEX TECHNOLOGIES INC [US]

Cited by

US9704087B2; WO2008154165A1

Designated contracting state (EPC)

DE GB IT NL

DOCDB simple family (publication)

EP 1249888 A2 20021016; **EP 1249888 A3 20040107**; CN 1224133 C 20051019; CN 1380720 A 20021120; EP 1764860 A1 20070321; JP 2002312070 A 20021025; JP 4205345 B2 20090107; US 2002151328 A1 20021017; US 6957085 B2 20051018

DOCDB simple family (application)

EP 02290008 A 20020103; CN 02102078 A 20020121; EP 06023967 A 20020103; JP 2002020013 A 20020129; US 3654502 A 20020107